

**TETRA TECH, INC.**

4213 State St., Suite 205
 Santa Barbara, CA 93101
 Telephone (805) 681-3100
 FAX (805) 631-3108

Project: **Vandenberg Air Force Base**
 Log of Well No. **7-MW-2**

Location: **OU5, Site 7, Bear Creek Canyon Pond, approx. 1400 ft west of intersection of Bear Creek Canyon and Surf Road.**

Date Started: **6/9/94** Completed: **6/16/94**

Logged By: **J. Rohrer** Checked By: **R. Horwath, RG**
~~RMH 5923~~

Drilled By: **T. De Vires, Layne Env.**

Drilling Equipment: **CME 750, HSA**

Sampling Equipment: **2" ID Split-spoon**

GS Elev.: **76.0** ft above MSL TD: **62.0** ft bgs

4" PVC Blank Casing: from **0** ft bgs to **30.9** ft bgs

.010 " Screened Casing: from **30.9** ft bgs to **50.9** ft bgs

Bentonite/Cement Grout: from **1.5** ft bgs to **18** ft bgs

Bentonite Transition Seal: from **18** ft bgs to **23.5** ft bgs

2/12 Sand Filter Pack: from **23.5** ft bgs to **55** ft bgs

TOC Elev.: **78.02** ft above MSL

Depth (ft bgs)	DESCRIPTION	Graphic/ USCS	Well Construction	Sample Blow Counts Per 6"	Percent Recovery	PID(ppm) Amb/Smp	REMARKS
	<u>sand-silty sand</u> (7.5YR 3/2), fine grained, minor silt, well sorted, subangular to rounded, moderate iron staining, loose, dry, roots, dune sand.	SP-SM		2 2 3 4	100	0/0	Start 1235. Sample V7MW2-0 sent for chemical tests.
5				2 3 4	100	0/0	NOTE: 7-MW-2 completed 10' east of original hole due to heaving sands. Original hole(8" dia.) was abandoned with bentonite/cement grout. Sample V7MW2-5 sent for chemical tests.
10	Same, except medium dense, moist, no roots.			5 7 11	100	0/0	Sample V7MW2-10 sent for chemical tests.
15	<u>silty sand</u> dark yellowish brown (10YR 3/6), fine to medium grained, moderately sorted, subangular to rounded, moderate iron staining, medium dense, very moist, alluvium.	SM		5 8 13	100	0/0	
				5 7 9	100	0/0	Sample V7MW2-15 and V7MW2-16 sent for chemical tests (replicates).
	Same, except very dense, wet.			5 19	67	0/0	

16.6 ft bgs ▽ Groundwater depth during drilling

15.2 ft bgs ▽ Groundwater depth after well development on: **7/21/94**

TC Number: **7301-11**

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	<u>silty sand</u> dark yellowish brown (10YR 3/6), fine to medium grained, moderately sorted, subangular to rounded, moderate iron staining, very dense, wet, alluvium.	SM		31	67	0/0	
25	Same, except dark grayish brown (2.5Y 3/2).			17 23 31	100	0/0	
30				5 12 18	56	0/0	Start of PVC vee-wire screen.
35				17 32 42	100	0/0	Sample V7MW2-35 sent for physical tests. Heaving sands at 35' bgs.
40				20 50 for 5"	100	0/0	Heaving sands.
	<u>silty sand</u> black (2.5Y 2.5/1), fine to medium grained, moderately sorted, subangular to rounded, very dense, wet, alluvium.			15 28		0/0	



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	<u>silty sand</u> black (2.5Y 2.5/1), fine to medium grained, moderately sorted, subangular to rounded, very dense, wet, alluvium.	SM			40			
50	Same, except trace subangular to subrounded fine grained gravel fragments.				7 9 11	100	0/0	
	<u>clay</u> black (2.5Y 2.5/1), medium plasticity, very moist, alluvium.	CL						
55	<u>clayey sand</u> black (2.5Y 2.5/1), trace gravel, loose, very moist, alluvium.	SC			2 5 7	100	0/0	
	<u>clay</u> black (2.5Y 2.5/1), high plasticity, firm, moist, alluvium.	CL						TD of 12" auger = 55.5' (second boring).
60	<u>clayey silt</u> very dark grayish brown (2.5Y 3/2), stiff, moist, wood fibers, alluvium.	ML			7 8 12	100	0/0	
	<u>gravelly sand</u> dark olive gray (5Y 3/2), fine to coarse grained sand, fine gravel, subangular to rounded, medium dense, very moist, alluvium.	SW ML			5 7 13	100	0/0	TD of 8" auger = 62' (original boring).
	<u>clayey silt</u> olive (5Y 5/3), low plasticity, very stiff, alluvium.							End 1620. NOTE: Well construction diagram corresponds to second boring.
65								